## INTERNATIONAL SEARCH REPORT

ıal Application No Interq 03/02488 PC

A. CLASSIFICATION OF SUBJECT MAT IPC 7 B2301/00 B23011/00 B28D1/04

B23Q11/10

B28D7/02

E21B21/02 10/517128

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

 $\begin{array}{ccc} {\rm Minimum\ documentation\ searched\ (classification\ system\ followed\ by\ classification\ symbols)} \\ {\rm IPC\ 7\ B230\ B28D\ E21B} \\ \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

. DOCUME	NTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	
, X	US 4 168 753 A (RAIBETANZ WILBERT ET AL) 25 September 1979 (1979-09-25) the whole document  PATENT ABSTRACTS OF JAPAN vol. 2003, no. 08, 6 August 2003 (2003-08-06)	1-9, 12-18, 20-27, 30-37,
	-& JP 2003 097178 A (SHOKO SANGYO KK), 3 April 2003 (2003-04-03) abstract; figures 6,8	64-74, 79-81
A	DE 297 24 568 U (VERWEYEN ULRICH) 14 February 2002 (2002-02-14) page 1, line 11 - line 15 figure 4	89,90
	-/	

Y Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.			
Special categories of cited documents:      "A" document defining the general state of the art which is not considered to be of particular relevance      "E" earlier document but published on or after the international filing date      "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      "O" document referring to an oral disclosure, use, exhibition or other means      "P" document published prior to the International filing date but	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "8" document member of the same patent family			
later than the priority date claimed  Date of the actual completion of the international search	Date of mailing of the International search report			
12 September 2003	29/09/2003			
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340–3016	Authorized officer  Breare, D			

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# INTERNATIONAL SEARCH REPORT

Interr 1al Application No
PC 3 03/02488

		PC 937 02-400
C.(Continua	tion) DOCUMENTS CONSIDED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	·
Ą	US 5 888 031 A (KABATNIK WILFRIED ET AL) 30 March 1999 (1999-03-30) column 1, line 6 - line 10 column 2, line 19 - line 49 column 2, line 62 - line 64 column 3, line 33 -column 4, line 11 column 5, line 48 - line 57 figures 1,4,6-8	1
A	GB 2 324 486 A (MARCRIST IND LTD) 28 October 1998 (1998-10-28) page 4, line 7 -page 5, line 7 figure 1	84,89,90
Α	DE 30 49 268 A (RADA OSWALD) 29 July 1982 (1982-07-29) page 4, line 6 -page 5, last line figures	89,90
A	US 4 036 308 A (DELLENBERG HUGO) 19 July 1977 (1977-07-19) the whole document	1
A	DE 38 41 871 A (BIEDRON BSB) 21 June 1990 (1990-06-21) the whole document	



lational application No. PCT/GB 03/02488

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:				
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
see additional sheet				
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-83

Drill attchment with housing having two conduits and drive shaft with two end portions each of which is in fluid communication with one of said conduits enabling the optimisation of fluid transfer for both wet and dry drilling using the same adapter.

2. Claims: 84-91

Drill attachment with chamber defined by housing and drive shaft having opening in selective fluid communication with fluid conduit in housing enabling the optimisation of fluid transfer between the tool and the fluid conduit for large and small tools whilst using the same adapter.

#### INTERNATIONAL SEARCH REPORT

lntern וal Application No PC 3 03/02488

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	itent document in search report		Publication date		Patent family member(s)	Publication date
US	4168753	Α .	25-09-1979	DE CH	2705082 A1 622736 A5	10-08-1978 30-04-1981
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